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IMPROVING LANGUAGE SOUND PRONUNCIATION SKILLS USING INPHA (INDONESIAN PHONETIC ALPHABET) MEDIA IN THE COURSE OF INDONESIAN LANGUAGE PHONOLOGY

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ABSTRACT

Interference from regional language pronunciation results in imperfections in pronouncing Indonesian language sounds. This phenomenon is experienced by students taking the Indonesian Language Phonology course, where using Indonesian language pronunciation media is needed to enhance personal correction skills. The average scores for consonant, vowel, and diphthong pronunciation phonemes are low. Hence, this research aims to achieve three main objectives: (1) Enhancing students' vowel sound pronunciation skills using InPhA in the Indonesian Language Phonology course; (2) Enhancing students' consonant sound pronunciation skills using InPhA in the Indonesian Language Phonology course; and (3) Enhancing students' diphthong sound pronunciation skills using InPhA in the Indonesian Language Phonology course. This research employs a qualitative research design by implementing Classroom Action Research procedures. The data sources include 67 students from the Indonesian Literature Department, State University of Malang, Batch of 2022. The data includes scores for the Assessment of Indonesian Vowel, Consonant, and Diphthong Pronunciation in the pre-cycle, cycle one, and cycle two phases. The research findings indicate that the Average Improvement of Indonesian vowel allophone sound pronunciation consisting of [i], [I], [u], [U], [e], [ɛ], [□], [o], [□], and [a] is 35.54%; the Average Improvement of Indonesian consonant sound pronunciation involving 23 consonants namely /p/, /b/, /m/, /f/, /w/, /t/, /n/, /l/, /r/, /□/, /ʃ/, /s/, /z/, /c/, /j/, /ɲ/, /y/, /k/, /g/, /ŋ/, /x/, /h/, and /ʔ/ is 11.5%; and the Average Improvement of Indonesian diphthong sound pronunciation comprising four allophones namely [aI], [ai], [aU], and [oi] is 11.5%. All three aspects demonstrate that using InPhA (Indonesian Phonetic Alphabet) media can enhance Indonesian vowel, consonant, and diphthong sound pronunciation skills in the Indonesian Language Phonology course.

Keywords: Classroom Action Research, pronunciation improvement, sound pronunciation, Indonesian language, Phonology

INTRODUCTION

Indonesia comprises various ethnic groups, each with its regional language. Campbell (2008) noted that Indonesia possesses 742 regional languages, with 737 of them still actively spoken by their respective communities, according to Gordon (2005). This condition creates the potential for language contact, leading to the interference of pronunciation patterns from one language to another. Suryansyah (2017) identified three forms of phonological interference from the Bima language in Indonesian, including vowel interference leading to the omission of consonant phonemes, the omission of vowel phonemes, and the substitution of vowel phonemes. These phenomena contribute to the imperfect pronunciation of Indonesian language sounds.

Based on the problem study, this phenomenon is also experienced by students enrolled in the Indonesian Language Phonology course within the Department of Indonesian Literature, Faculty of Literature, State University of Malang, among the 67 students of Class A and C, Batch of 2021, 40 exhibits phonological interference from their regional mother tongues into their Indonesian pronunciation. This interference is particularly evident when pronouncing consonant sounds and allophonic vowels in Indonesian, which the Javanese language influences.

Cases of Javanese interference in Indonesian have garnered attention from several researchers, who qualitatively described them in various contexts, such as onset consonant cluster pronunciation by Dini, P. A. (2021); student storytelling activities by Susanti, A. D. (2013); the Use of Indonesian by primary school students in Tlogomulyo District by Kurnia, Z., Samingin, F. X., & Asmara, R. (2018); the Korean Reomit

YouTube channel (Sociolinguistic Studies) by Anggraini, A. D., NURYANTINGISIH, F., & NURHARYANI, O. P. (2021); and adolescent Javanese speakers in Purworejo, Central Java by Harini (2008).

Based on interviews and observations over two weeks, it was revealed that most students who struggle to articulate sounds accurately do so due to their failure to position their articulation at the correct point and place of articulation. This issue is compounded by the fact that Indonesian lacks standardized pronunciation resources like the International Phonetic Alphabet (IPA, 1999), Ladefoged (1990), Brown (2012), and Smith (2000) present in other languages, which could serve as tools for correcting pronunciation accuracy.

InPhA stands for Indonesian Phonetic Alphabetic and is registered under Intellectual Property by Jayanti et al. (2022). The InPhA application encompasses features for pronouncing vowels, consonants, diphthongs, and cluster phonemes, accompanied by explanations of their articulatory points and places. It serves as a personal correction medium and can be embedded in mobile devices, granting access anytime and anywhere.

The Use of educational media has been elucidated to offer ten benefits by Larassati (2020), Rahardja et al. (2012), Andrizal and Arif (2017), Priyambodo et al. (2012), and Hendriyani et al. (2018). These benefits include: (1) enhancing student engagement, (2) clarifying abstract concepts, (3) fostering more profound understanding, (4) improving retention abilities, (5) accommodating diverse learning styles, (6) facilitating dynamic lectures, (7) enhancing technological skills, (8) ensuring accessibility and flexibility, (9) enabling effective communication, and (10) preparing students for the workforce. As pronunciation is a practical skill that becomes less abstract with proper media support, these benefits are pertinent.

In general, the importance of this research focuses on enhancing students' proficiency in pronouncing Indonesian language sounds. However, in the course of the study, four specific objectives emerged, namely: (1) comprehensively understanding the pronunciation issues faced by students; (2) designing and implementing appropriate media solutions for these issues; (3) involving continuous reflection and improvement; and (4) measuring the impact of effectiveness.

Based on these descriptions, this research has three primary goals: (1) Enhancing students' vowel sound pronunciation skills using InPhA in the Indonesian Language Phonology course; (2) Enhancing students' consonant sound pronunciation skills using InPhA in the Indonesian Language Phonology course; and (3) Enhancing students' cluster and diphthong sound pronunciation skills using InPhA in the Indonesian Language Phonology course.

METHODS

This study employs a qualitative research design using Classroom Action Research (CAR) procedures. This approach aims to comprehend and improve the teaching practices in Indonesian language sound pronunciation skills within the Indonesian Language Phonology course. Mulyatiningsih (2015) outlined six characteristics of CAR, including (1) situational research themes, (2) actions based on evaluation results and self-reflection, (3) conducted in multiple cycles, (4) aimed at performance improvement, (5) carried out collaboratively or participatory, and (6) utilizing a limited sample.

The steps of CAR, as formulated by Wibawa (2003), Parnawi (2020), and Erihadiana (2013), are (1) planning, (2) taking action, (3) observing, and (4) reflecting. These steps are adapted into Nine Steps for this study, as follows:

1. It identifies the main issues in Indonesian sound pronunciation skills within the class.
2. We are planning concrete measures to enhance students' pronunciation skills.
3. They collect data about students' pronunciation skills before implementing Cycle 1 and Cycle 2.
4. We are applying the previously designed steps, incorporating the Use of InPhA as a media aid.
5. We are observing the implementation of actions in the classroom and gathering data on students' pronunciation skills progression throughout the teaching process.
6. Analyzing the collected data during the implementation of actions, then evaluating the potential for improvements in students' pronunciation skills during the learning process.
7. We are reflecting on the implementation of Cycle 1 by noting deficiencies in the action implementation related to the assessment of pronunciation skills.
8. We are implementing the second Action Cycle, refining the method of scoring pronunciation skills.

9. We are sharing the research outcomes with fellow educators and students to enrich experiences and contributions related to Indonesian language sound pronunciation skills.

The data source comprises 67 students from the Department of Indonesian Literature, State University of Malang, Batch 2022. Data includes scores for assessing Indonesian language sound pronunciation, covering vowels, consonants, diphthongs, and clusters, collected during Cycle 1 and 2. A pre-cycle is undertaken using direct pronunciation assessments before conducting actions in Cycles 1 and 2, with initial pronunciation scores obtained. These scores are collected through four methods: (1) independent recording by students, (2) peer assessment, (3) instructor assessment, and (4) self-assessment using the InPhA application. The first two steps, Steps 1 and 2, are applied in Cycle 1, while Steps 3 and 4 are used to measure scores in Cycle 2.

FINDINGS AND DISCUSSION

The results and discussion are presented based on consistency with the research questions. The aspects covered include (1) Students' Vowel Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course, (2) Students' Consonant Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course, and (3) Students' Diphthong Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course. These three points are elaborated as follows:

Students' Vowel Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course

The Indonesian language comprises six vowels, which are divided into ten vowel phoneme allophones, namely [i], [I], [u], [U], [e], [ɛ], [□], [o], [□], and [a] (Abdul: 2013; Arifin et al.: 2017; Jayanti et al.: 2022; Muslich: 2008). The Pre-Cycle results reveal the order of difficulty in pronouncing vowel allophones, ranging from the most challenging [□], [□], [I], [ɛ], [U], [i], [u], [e], [o], to [a]. Specific data values can be seen in Table 1 below, which presents the scores from Pre-Cycle, Cycle 1, and Cycle 2 concerning the pronunciation skill of Indonesian vowel phoneme allophones. The percentage increase can also be observed in Graph 1, providing information on improving Indonesian vowel sound pronunciation.

Table 1. Students' Vowel Sound Pronunciation Proficiency

No	Vowel Phoneme	Vowel Phoneme Allophones	Pre-Cycle	Cycle 1	Cycle 2
1	/i/	[i]	45	58	67
		[I]	29	47	66
2	/u/	[u]	49	55	67
		[U]	34	40	65
3	/e/	[e]	49	55	67
		[ɛ]	30	49	67
4	/□/	[□]	29	55	67
5	/o/	[o]	55	59	67
		[□]	26	50	66
6	/a/	[a]	58	60	67

Table 1, showing students' proficiency in vowel sound pronunciation, indicates that for the [i] allophone, out of 67 students in the Pre-Cycle, 45 passed, increasing to 58 in Cycle 1 and achieving 100% proficiency by the end of Cycle 2. Overall proficiency is also evident for the [u], [e], [ɛ], [□], [o], and [a] allophones. However, for the [I], [U], and [□] allophones, overall proficiency has not been achieved. According to Rismaya and Riyanto (2021); Yue and Damayati (2021); Adityarini et al. (2020); Nugraha (2020); Budiawan and Rukayati (2018), the difficulty in pronouncing [I], [U], and [□] is influenced by five factors: (1) anatomical differences, (2) first language habits, (3) auditory limitations, (4) dialect influence, and (5) practice and training.

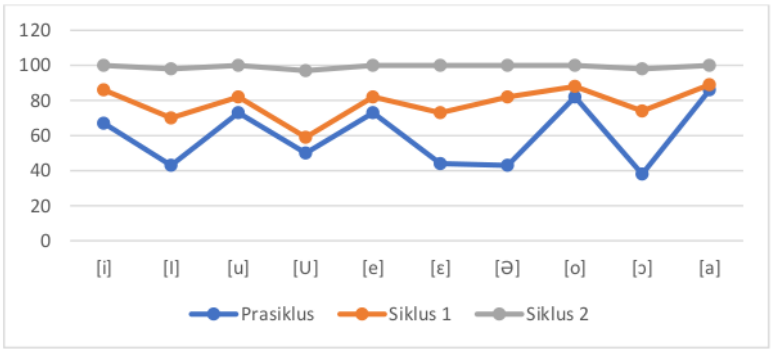


Figure 1. Enhancement of Indonesian Language Vowel Sound Pronunciation

Graph 1 displays the improvement from Pre-Cycle (blue), Cycle 1 (orange), to Cycle 2 (gray). The respective percentage increases for the ten vowel allophones that experienced improvement are [i] (32%), [I] (55%), [u] (27%), [U] (46%), [e] (27%), [ɛ] (55%), [□] (57%), [o] (18%), [□] (60%), and [a] (14%). The highest improvement percentage is seen for [□] at 60%, while the lowest is for [a] at 14%.

Several factors contribute to the data presented in this study. Rismaya and Riyanto (2021); Putri (2012); Pardede (2020); Nawari and Riau (2019); PEISHI (2018) state that the accuracy of vowel sound pronunciation is influenced by pitch, stress, tempo, and pause. In practice, the InPhA media displays articulation points that determine the presence of these four aspects, allowing for scoring improvement. Figures 2, 3, and 4 demonstrate the user-friendly instructions within the InPhA media.



Figure 2. Instructions for High-Low Vowel Articulation in InPhA



Figure 3. Instructions for Vowel Stress in InPhA



Figure 4. List of Indonesian Vowel Allophone Realizations in InPhA

Students' Consonant Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course

The Indonesian language consists of 23 consonant phonemes, including /p/, /b/, /m/, /f/, /w/, /t/, /n/, /l/, /r/, /□/, /ʃ/, /s/, /z/, /c/, /j/, /ɲ/, /y/, /k/, /g/, /ŋ/, /x/, /h/, and /ʔ/. From a sample of 67 students in Cycle 2, a proficiency rate of 100% was achieved for correctly articulating the points of consonant phonemes. Table 2 below illustrates the improvement in pronunciation for the 23 consonant phonemes.

Table 2. Students' Consonant Sound Pronunciation Proficiency

No	Consonant Phoneme	Pre-Cycle	Cycle 1	Cycle 2
1.	/p/	55	62	67
2.	/b/	64	65	67
3.	/m/	67	67	67
4.	/f/	67	67	67
5.	/w/	62	67	67
6.	/t/	37	58	67
7.	/n/	64	66	67
8.	/l/	63	67	67
9.	/r/	65	66	67
10.	/□/	30	43	67
11.	/ʃ/	64	65	67
12.	/s/	67	67	67
13.	/z/	59	66	67
14.	/c/	67	67	67
15.	/j/	48	59	67
16.	/ɲ/	59	66	67
17.	/y/	67	67	67
18.	/k/	67	67	67
19.	/g/	33	45	67
20.	/ŋ/	62	65	67
21.	/x/	67	67	67
22.	/h/	67	67	67
23.	/ʔ/	42	53	67

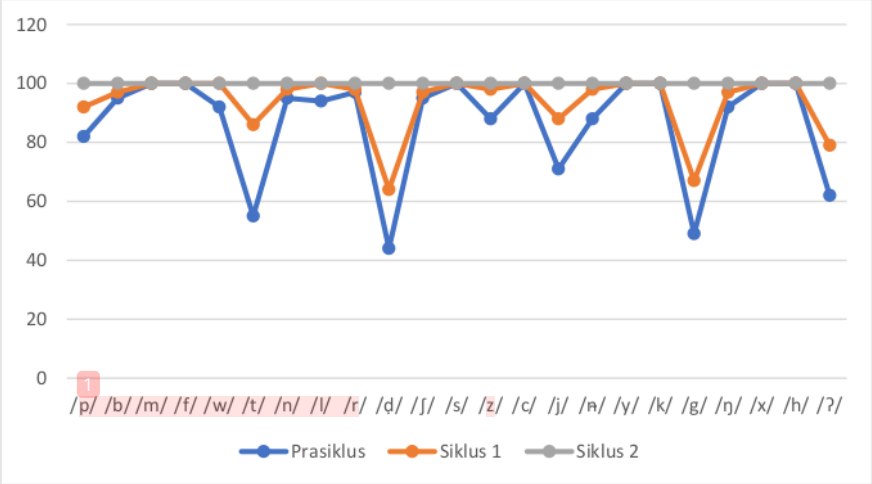


Figure 5. Progression in Pronunciation of Indonesian Consonant Phonemes

Graph 5, depicting the enhancement of Indonesian consonant sound pronunciation, illustrates that all twenty-three consonants displayed successive improvements of 18%, 4.5%, 0%, 0%, 7.5%, 45%, 4%, 6%, 3%, 55%, 4%, 0%, 12%, 0%, 28%, 12%, 0%, 0%, 51%, 7%, 0%, 0%, and 37%, respectively. The overall average improvement rate is 12.8%. Eight consonant phonemes registered a 0% increase, not due to a lack of improvement, but rather because they were proficient from the Pre-Cycle, namely the consonants /m/, /f/, /s/, /c/, /y/, /k/, /x/, and /h/. Katamsi and Hae (2011); Ting (2011); Ni and Sumarti (2018); Hidayati et al. (2022); and Masfufah (2018) separately documented five reasons these eight consonants did not pose difficulty: (1) simple articulation arrangement, (2) consistent airflow, (3) similarity to common languages, (4) absence of extreme mouth position changes, and (5) presence in early phonological acquisition during childhood.

Students' Diphthong Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course

In the Indonesian language, there are three diphthongs with four allophones: [aI], [ai], [aU], and [oi]. Table 3 presents the increase in pronunciation proficiency for these four diphthong allophones in Indonesian. Among 67 students, the diphthong that was easiest to pronounce was/oi/, recording a 3% improvement. On the other hand, [aI] proved to be the most challenging, experiencing a final increase of 10%. Most issues in diphthong pronunciation stem from monophthongization, which Kulsum (2021) defines as the conversion of diphthongs into monophthongs, such as "cabai" becoming "cabe," "sampai" becoming "sampe," and "saudara" becoming "sodara."

Table 3. Students' Diphthong Sound Pronunciation Proficiency

No	Diphthong Phoneme	Diphthong Allophones	Pre-Cycle	Cycle 1	Cycle 2
1	/ai/	[aI]	60	64	67
		[ai]	57	66	67
2	/au/	[aU]	55	67	67
3	/oi/	[oi]	65	66	67

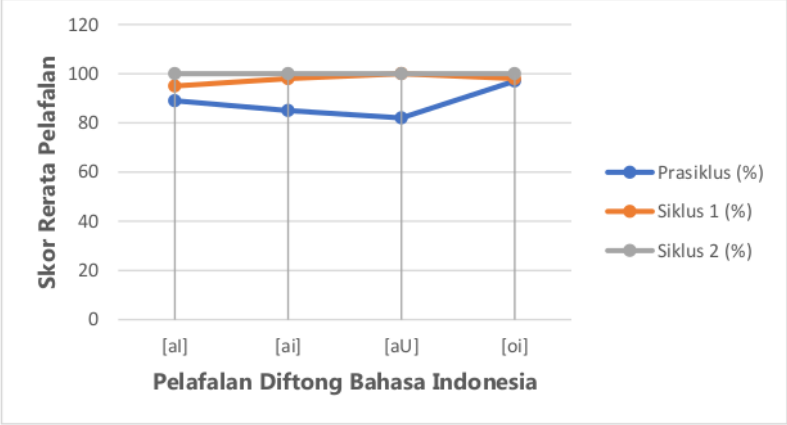


Figure 6. Progression in Pronunciation of Indonesian Diphthong Phonemes

Through the above Graph 3, the percentage increments from Pre-Cycle, Cycle 1, to Cycle 2 for Indonesian diphthong pronunciations [aI], [ai], [aU], and [oi] are noted as 10%, 15%, 18%, and 3% respectively. In enunciating diphthongs, students often slip by truncating the accompanying sound. This observation aligns with Maulida's (2019) findings, which discovered that Thai students struggle to articulate the final diphthong sound, as exemplified by the word [sungai], pronounced without the final "y" sound.

CONCLUSION

Students' Vowel Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course

The Indonesian language comprises six vowels, further divided into ten allophonic vowel phonemes: [i], [I], [u], [U], [e], [ɛ], [□], [o], [□], and [a]. The research results indicate a percentage improvement in these ten vowel allophones of 32%, 55%, 27%, 46%, 27%, 55%, 57%, 18%, 60%, 14%, and 36%. The overall average improvement in vowel pronunciation is 11.5%.

Students' Consonant Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course

The Indonesian language features 23 consonant phonemes: /p/, /b/, /m/, /f/, /w/, /t/, /n/, /l/, /r/, /□/, /ʃ/, /s/, /z/, /c/, /j/, /ɲ/, /y/, /k/, /g/, /ŋ/, /x/, /h/, and /ʔ/. The study records that all twenty-three consonants exhibited consecutive improvements of 18%, 4.5%, 0%, 0%, 7.5%, 45%, 4%, 6%, 3%, 55%, 4%, 0%, 12%, 0%, 28%, 12%, 0%, 0%, 51%, 7%, 0%, 0%, and 37%, respectively. The overall average improvement in consonant pronunciation is 12.8%.

Students' Cluster and Diphthong Sound Pronunciation Skills Using InPhA in the Indonesian Phonology Course

In the Indonesian language, there are three diphthongs with four allophones: [aI], [ai], [aU], and [oi]. The percentage increments from Pre-Cycle, Cycle 1, to Cycle 2 for Indonesian diphthong pronunciations [aI], [ai], [aU], and [oi] are noted as 10%, 15%, 18%, and 3%, respectively.

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